FUJITSU COMPUTERS SIEMENS

PRIMERGY RX600 S3

incl. SAS version

System configurator and order-information guide

February 2007

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Change report

PRIMERGY Server

Instructions

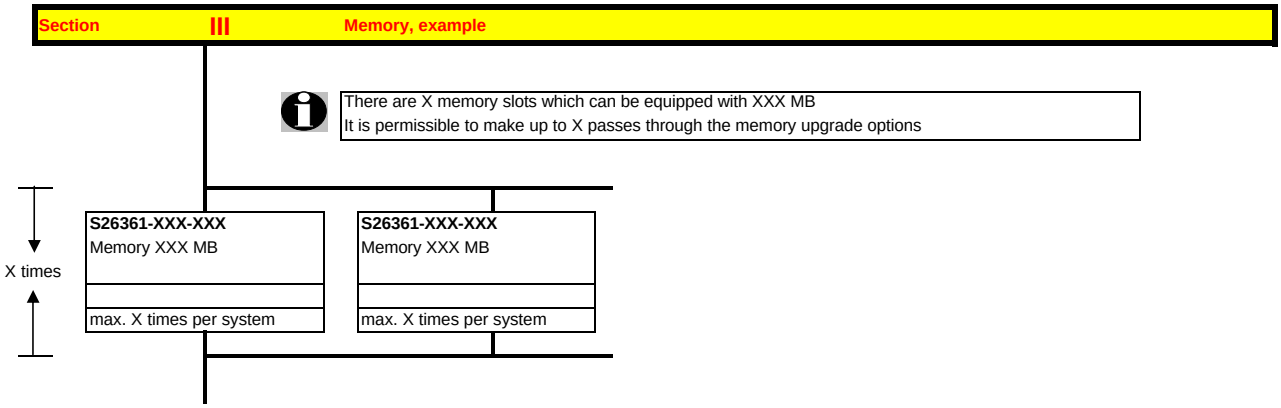
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

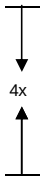
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.


Section
III
Memory, example
There are X memory slots which can be equipped with XXX MB
It is permissible to make up to X passes through the memory upgrade options
X times
S26361-XXX-XXX
Memory XXX MB
max. X times per system
S26361-XXX-XXX
Memory XXX MB
max. X times per system

In one chapter you can only select as many components (here 4x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.

Further information in the internet see:

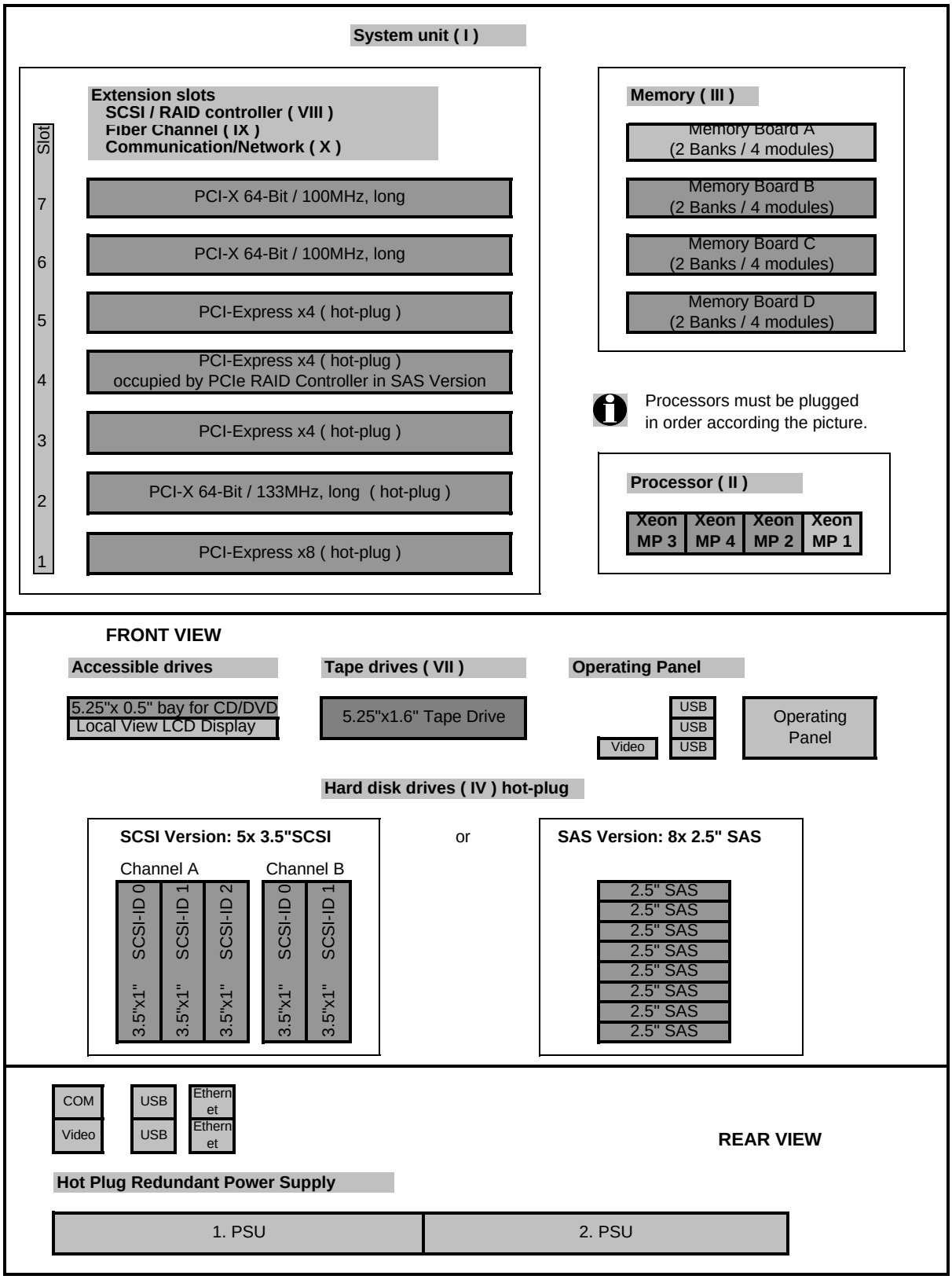
http://www.primergy.com (internet)

http://extranet.fujitsu-siemens.com/primergy (extranet)

Prices and availability see price list and PC-/System-Architect.
Subject to change and errors excepted.

Configuration diagram PRIMERGY RX600 S3

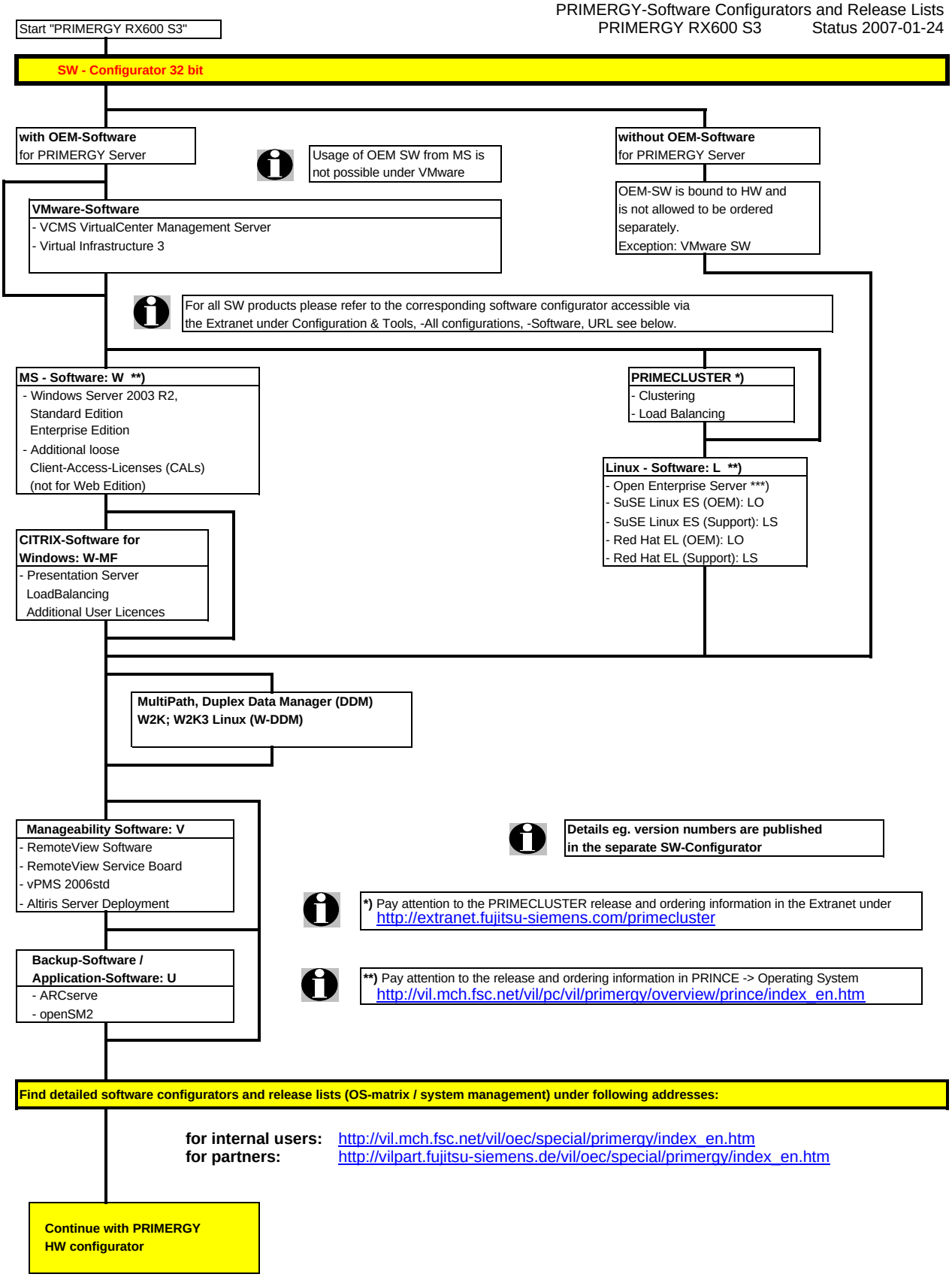
TOP View

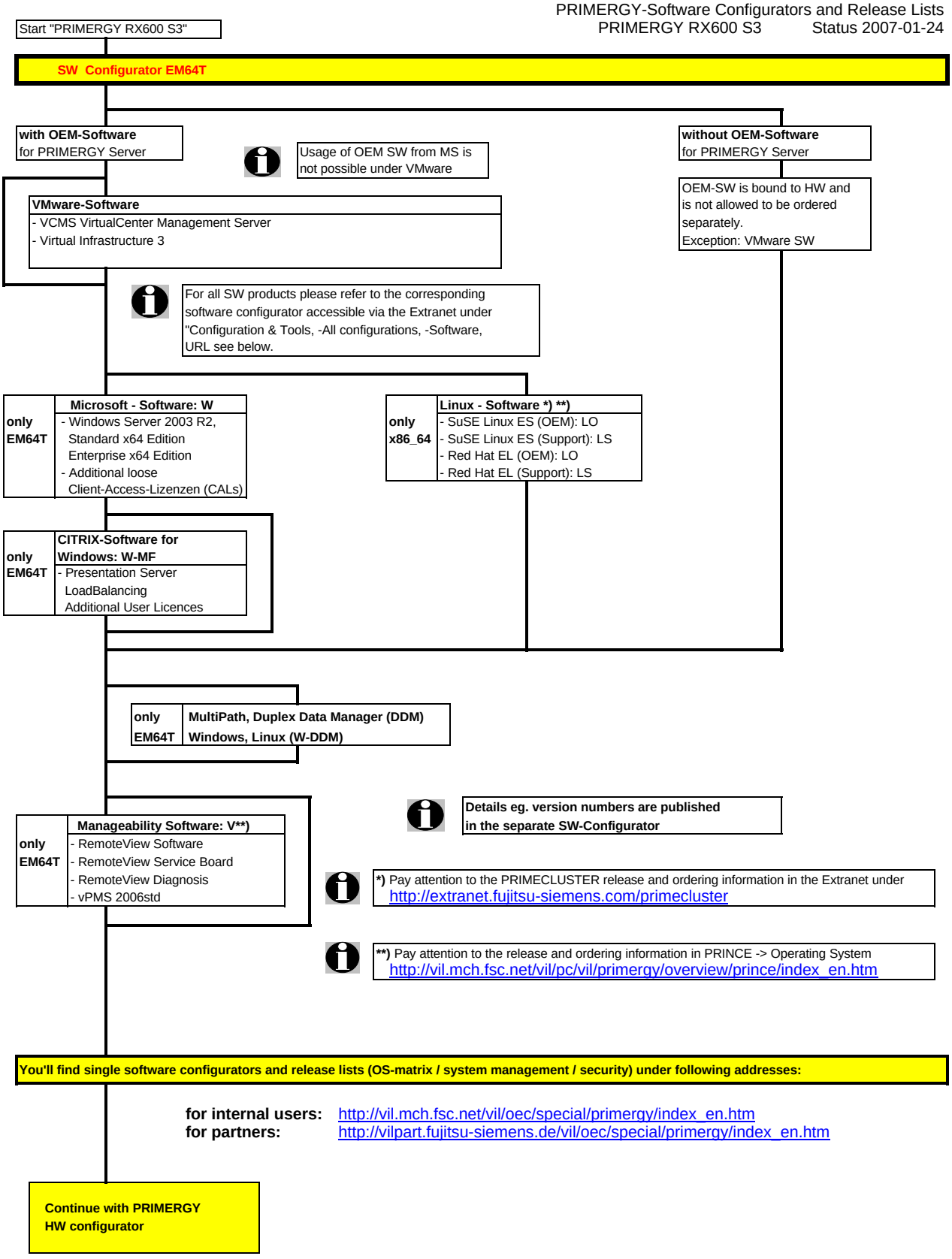


Key:

Included in basic unit

Option


Start "PRIMERGY RX600 S3"
SW - Configurator 32 bit
with OEM-Software
for PRIMERGY Server
Usage of OEM SW from MS is not possible under VMware
without OEM-Software
for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately.
Exception: VMware SW
VMware-Software
- VCMS VirtualCenter Management Server
- Virtual Infrastructure 3
For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.
MS - Software: W **)
- Windows Server 2003 R2, Standard Edition Enterprise Edition
- Additional loose Client-Access-Licenses (CALs) (not for Web Edition)
PRIMECLUSTER *)
- Clustering
- Load Balancing
Linux - Software: L **)
- Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
CITRIX-Software for Windows: W-MF
- Presentation Server LoadBalancing Additional User Licences
MultiPath, Duplex Data Manager (DDM) W2K; W2K3 Linux (W-DDM)
Manageability Software: V
- RemoteView Software
- RemoteView Service Board
- vPMS 2006std
- Altiris Server Deployment
Details eg. version numbers are published in the separate SW-Configurator
*) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under http://extranet.fujitsu-siemens.com/primecluster
Backup-Software / Application-Software: U
- ARCserve
- openSM2
**) Pay attention to the release and ordering information in PRINCE -> Operating System http://vil.mch.fsc.net/vil/pc/vil/primergy/overview/prince/index_en.htm
Find detailed software configurators and release lists (OS-matrix / system management) under following addresses:
for internal users: http://vil.mch.fsc.net/vil/oec/special/primergy/index_en.htm
for partners: http://vilpart.fujitsu-siemens.de/vil/oec/special/primergy/index_en.htm
Continue with PRIMERGY HW configurator


Start "PRIMERGY RX600 S3"
SW Configurator EM64T
with OEM-Software for PRIMERGY Server
Usage of OEM SW from MS is not possible under VMware
without OEM-Software for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately. Exception: VMware SW
VMware-Software
- VCMS VirtualCenter Management Server
- Virtual Infrastructure 3
For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.
only EM64T
Microsoft - Software: W
- Windows Server 2003 R2, Standard x64 Edition Enterprise x64 Edition
- Additional loose Client-Access-Lizenzen (CALs)
only x86_64
Linux - Software *) **)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
only EM64T
CITRIX-Software for Windows: W-MF
- Presentation Server LoadBalancing Additional User Licences
only EM64T
MultiPath, Duplex Data Manager (DDM) Windows, Linux (W-DDM)
Details eg. version numbers are published in the separate SW-Configurator
only EM64T
Manageability Software: V**)
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- vPMS 2006std
*) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under http://extranet.fujitsu-siemens.com/primecluster
**) Pay attention to the release and ordering information in PRINCE -> Operating System http://vil.mch.fsc.net/vil/pc/vil/primergy/overview/prince/index_en.htm
You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:
for internal users: http://vil.mch.fsc.net/vil/oec/special/primergy/index_en.htm
for partners: http://vilpart.fujitsu-siemens.de/vil/oec/special/primergy/index_en.htm
Continue with PRIMERGY HW configurator

Start PRIMERGY RX600 S3

Section | **Basic unit**

PRIMERGY RX600 S3 SCSI		**PRIMERGY RX600 S3 SAS**	
Rack unit 4U		**Rack unit 4U**	
SCSI basic unit with: - 3 + 2 bays for 1" HDD`s (two channels) - 7 PCI Slots - 1x 64bit / 133MHz PCI-X slot (hot plug) - 2x 64bit / 100MHz PCI-X slot - 3x PCIe x4 slot (hot plug) - 1x PCIe x8 slot (hot plug) - onboard RAID 5 functionality with 256MB Cache (BBU optional)		**SAS basic unit with:** - 8 bays for 2.5" SAS HDD`s - 6 PCI Slots - 1x 64bit / 133MHz PCI-X slot (hot plug) - 2x 64bit / 100MHz PCI-X slot - 2x PCIe x4 slot (hot plug) - 1x PCIe x8 slot (hot plug) - SAS RAID 5 Controller with 256MB Cache and BBU	
- memory of basic units selectable via base memory order codes		**- memory of basic units selectable via base memory order codes**	
2.60GHz/4MB 7110M	**S26361-K988-V410**	2.60GHz/4MB 7110M	**S26361-K988-V510**
3.00GHz/4MB 7120M	**S26361-K988-V420**	3.00GHz/4MB 7120M	**S26361-K988-V520**
3.20GHz/8MB 7130M	**S26361-K988-V430**	3.20GHz/8MB 7130M	**S26361-K988-V530**
3.40GHz/16MB 7140M	**S26361-K988-V440**	3.40GHz/16MB 7140M	**S26361-K988-V540**

Basic Unit including:
- 2 hot-plug power supply (redundant)
- 2 hot-plug fan modules (redundant)
- LCD-Display for LocalView (Service Display)
- 1 bay (0,5" height) for CD- or DVD-ROM
- 1x 5.25" bays FH (1,6" high) for accessible drives
- Rack- mounting kit

Systemboard with
- Intel E8501 chipset with 800MHz Frontside Bus
- 1x XEON MP dua core processor (2nd, 3rd and 4th as option)
- 1 memory board (2nd, 3rd and 4th as option)
- Ultra 320 SCSI-controller (LSI 53C1030)
- Dual LAN-Controller 1GBit on-board WOL-capable (BroadCom 5704)
- VGA Controller on-board (ATI Radeon 7000M, 16MB RAM)
- Server Management Controller on-board (RSB 2 Board optional)
- ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

PRIMERGY PRIMECENTER- Rack

SNP:SY-F1647E301-P
Installation ex works for one server or subsystem.
Hereby the rack will be delivered completely pre-mounted and all wired connections are tested.
With racks 12U, 24U, 38U:
Systems and components will be delivered installed in the rack
With racks 46U:
Systems and components will be delivered separately

To be ordered only together with a PRIMERGY-PRIMECENTER rack
e.g.:
S26361-K826-V10x

refer configurator DC-Rack
max. 1x per System

"Rack-mounting ex factory"
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the PRIMERGY racks.
In case of the 46 U PRIMERGY rack, this service has to be ordered, to get the mounting kits and the cables installed

- Interfaces:
Front side
3x USB 2.0
1x VGA (15 pin)

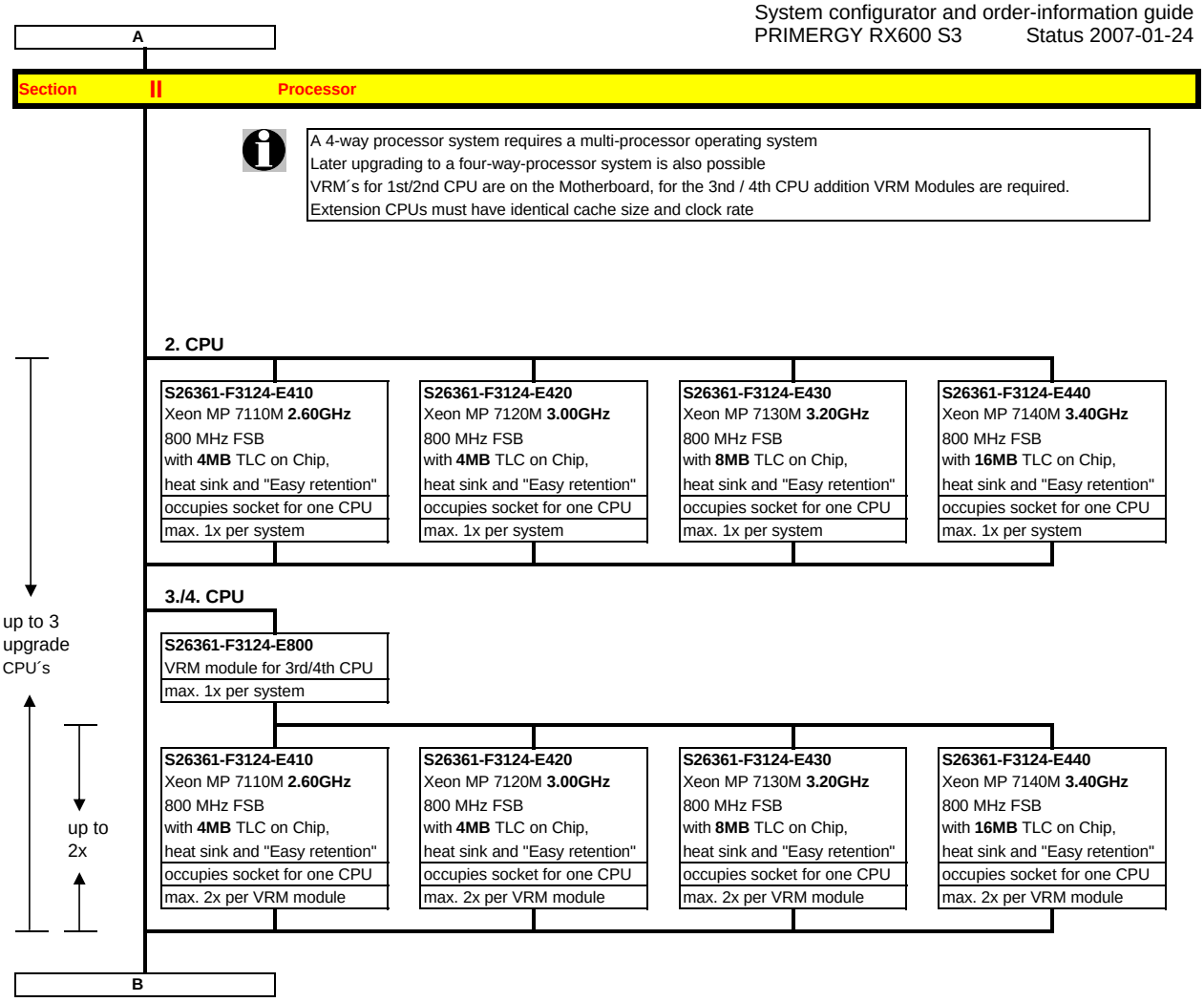
Rear Side
2x USB 2.0
1x VGA (15 pin)
1x RS-232-C (serial, 9 pin)
2x RJ45 (on board LAN)
no PS/2 connection for KB / Mouse
(USB connectivity must be used instead)

Rack Mounting kit is part of the basic unit PRIMERGY RX600 S2
- 1 pair of telescopic rails (713 - 812mm)
- 1 bracket DC-PC-Rack
- 1 cable management for DC-PC-racks

This kit allows for mounting of TX/RX600 S3 in in FSC 19" DataCenter- and PRIMECENTER- racks and all server racks conforming to EIA standard EIA-310-D for 19" racks.
Therefore the mounting kit is variable in depth from 713 - 812mm
Installation in PRIMERGY 19" Classic rack is not possible.
Due to the heat dissipation of the system, sufficent cooling couldn´t be enabled in classic rack.

Connetion for KVM switch / Rack console
- RC23 can be directly connected (both USB and PS/2 connections)
- KVM S2 series needs the KVM S2 Adapter USB<->VGA
- For ES4/8+ KVM series with PS/2 connector as well as for standard PS/2 KB / Mouse an additional USB to PS/2 adapter must be bought additionally and connected to the RX600 S3. The adapter offers 2x PS/2 ports.
  Adaper order number, to purchase via PRIMEPOWER, is:
  D:GP70P-KA01 Adapter for PS/2<->USB
- Appropriate FSC USB keyboard is S26381-K340-V1*
  This keyboard also needs USB cable T26139-Y3812-V1

A


A
Section II Processor
A 4-way processor system requires a multi-processor operating system
Later upgrading to a four-way-processor system is also possible
VRM´s for 1st/2nd CPU are on the Motherboard, for the 3nd / 4th CPU addition VRM Modules are required.
Extension CPUs must have identical cache size and clock rate
2. CPU
S26361-F3124-E410
Xeon MP 7110M 2.60GHz
800 MHz FSB
with 4MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 1x per system
S26361-F3124-E420
Xeon MP 7120M 3.00GHz
800 MHz FSB
with 4MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 1x per system
S26361-F3124-E430
Xeon MP 7130M 3.20GHz
800 MHz FSB
with 8MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 1x per system
S26361-F3124-E440
Xeon MP 7140M 3.40GHz
800 MHz FSB
with 16MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 1x per system
up to 3
upgrade
CPU´s
3./4. CPU
S26361-F3124-E800
VRM module for 3rd/4th CPU
max. 1x per system
up to
2x
S26361-F3124-E410
Xeon MP 7110M 2.60GHz
800 MHz FSB
with 4MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 2x per VRM module
S26361-F3124-E420
Xeon MP 7120M 3.00GHz
800 MHz FSB
with 4MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 2x per VRM module
S26361-F3124-E430
Xeon MP 7130M 3.20GHz
800 MHz FSB
with 8MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 2x per VRM module
S26361-F3124-E440
Xeon MP 7140M 3.40GHz
800 MHz FSB
with 16MB TLC on Chip,
heat sink and "Easy retention"
occupies socket for one CPU
max. 2x per VRM module
B

B

Section III Memory

The system can be equipped with up 4 memory boards with 2 memory banks each.
One Memory Board is allready supplied in the base unit.
Each memory board can be equipped with up to 2x 8GB = 16GB memory.
The maximal extension is 64GB with 4GB modules!
No mix of modules within one memory bank is allowed.

For each basic unit, one pair of memory modules has to be ordered with the ordercode of "Base Memory"
(either 2GB = 2x1GB, 4GB = 2x2GB or 8GB = 2x4GB)
Note**: The price of the smallest Base Memory is already included in the basic unit,
The price of the other Base Memories is the Delta to the smallest Base Memory
Additional memory extensions (Upgrade Memory) can still be configured for the standard market price.

ECC with memory scrubbing function is standard for RX600 S3.
Optional hot-spare memory functionality can be configured in the BIOS (redundant memory bank n + 1)
RX600 S3 supports the memory protection through Memory Mirroring or Memory RAID.
Memory Mirroring requires 2 or 4 Memory boards, Memory RAID requires 4 Memory boards.

see Note above**

S26361-F3072-B622	**S26361-F3072-B623**	**S26361-F3072-B624**
Base memory **2 GB**	Base memory **4 GB**	Base memory **8 GB**
DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC
with chipkill support	**with chipkill support**	**with chipkill support**
consisting of 2 modules with 1 GB each	consisting of 2 modules with 2 GB each	consisting of 2 modules with 4 GB each
occupies one bank	occupies one bank	occupies one bank
1x per base system	1x per base system	1x per base system

S26361-F3072-E622	**S26361-F3072-E623**	**S26361-F3072-E624**
Upgrade memory 2 GB	Upgrade memory 4 GB	Upgrade memory 8 GB
DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC
with chipkill support	**with chipkill support**	**with chipkill support**
consisting of 2 modules with 1 GB each	consisting of 2 modules with 2 GB each	consisting of 2 modules with 4 GB each
occupies one bank	occupies one bank	occupies one bank
max. 1x per base system	max. 1x per base system	max. 1x per base system

up to 3x memory upgrade boards

S26361-F3125-E130
Memory Board with 2 banks for 2 modules each

max. 3x per system

S26361-F3072-E622	**S26361-F3072-E623**	**S26361-F3072-E624**
Upgrade memory 2 GB	Upgrade memory 4 GB	Upgrade memory 8 GB
DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC	DDR RAM PC2-3200 ECC
with chipkill support	**with chipkill support**	**with chipkill support**
consisting of 2 modules with 1 GB each	consisting of 2 modules with 2 GB each	consisting of 2 modules with 4 GB each
occupies one bank	occupies one bank	occupies one bank
max. 2x per memory board	max. 2x per memory board	max. 2x per memory board

C

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Section IV on-board SCSI / SAS Controller

SCSI Base Units

The system is equipped with a two channel Utra 320 onboard SCSI controller
including a full featured RAID controller with 256MB Cache (suporting the RAID level 0, 1, 5, 10, 50).
As option the on-board RAID Controller can be equipped with a Battery Backup Unit.
This on-board SCSI/RAID controller can be used for the connection of internal tapes and disks drives.
Also one channel can be used for the connection of external Tape devices in the SX10 subsystem.

The following rules apply for the cabling:
The cables for the connection of the on-board RAID controller to the disks in the system are includes in the base unit.
If an internal tape is configured, an additional SCSI cable is needed. (see section "IV Hard disk drives / Tapes")
For the connection of external Tape devices to the on board SCSI controller, also an additional cable is needed in the system.
(plus cable to connect to the subsystem SX10, see configurator SX10)

S26361-F3128-E20
ROM Battery Backup Unit
for on-board RAID controller
max. 1x per system

Overview SCSI-cabling of a PRIMERGY RX600 S3 SCSI Base Unit

Picture 1:
Two channels for Disks
onboard SCSI / RAID → 1x3 HDD
onboard SCSI / RAID → 1x2 HDD

optional
29160 Contr. → internal Tape Devices
29160 Contr. → external Tape Devices

Picture 2:
Two ch. for Disks + int. Tape
onboard SCSI / RAID → 1x3 HDD
onboard SCSI / RAID → internal Tape Devices

optional
29160 Contr. → external Tape Devices
29160 Contr. → external Tape Devices

Picture 3:
One ch. for Disks + ext. Tape
onboard SCSI / RAID → 1x3 HDD
onboard SCSI / RAID → external Tape Devices

optional
29160 Contr. → external Tape Devices
29160 Contr. → external Tape Devices

Configuration with 2 channels for Disk Drives — **Picture 1**

Both channels of the on-board SCSI/RAID-controller are used for SCSI disk drives (pls see pictures above).
For the connetion of internal tape devices an additonal SCSI controller is required, pls see section V SCSI-RAID controller

Configuration with 2 channels for Disk Drives plus internal Tape device — **Picture 2**

One channel of the on-board SCSI/RAID-controller is used for SCSI HDD (pls see pictures above).
The secound channel can be used to connect additional SCSI HDD and /or an internal tape device.

Configuration with 1 channels for Disk Drives plus external Tape device — **Picture 3**

One channel of the on-board SCSI/RAID-controller is used for SCSI disk drives (pls see pictures above).
The secound channel can be used to connect external Tape drives.

D

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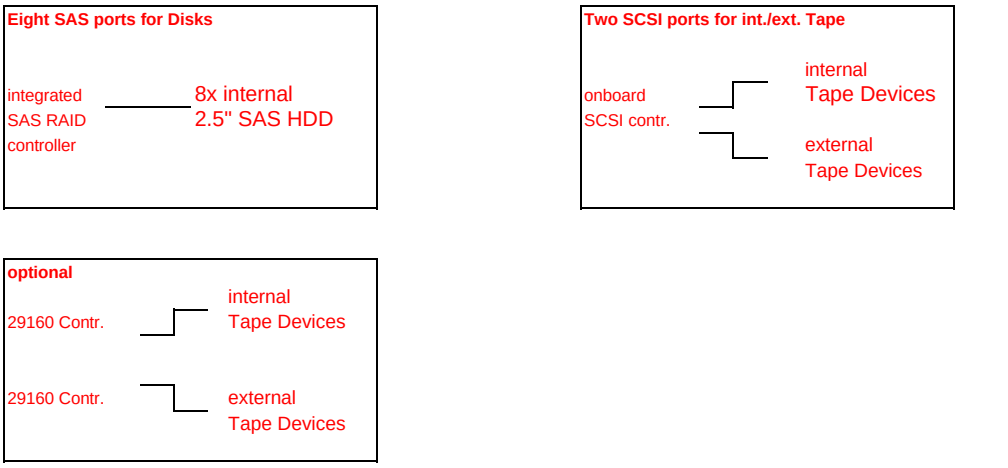
SAS Base Units

AB. on-board SCSI-/ SAS RAID-Controller for accessible drives and SAS HDD´s -> SAS Version

The system will be delivered with a 8-port SAS RAID controller for the connection of SAS HDD´s
This SAS RAID Controller is equipped with 256MB Cache and BBU (suporting the RAID level 0, 1, 5, 10, 50),
and can be used only for the connection of internal disks drives.
Additonally the system is equipped with a two channel Utra 320 onboard SCSI controller
This on-board SCSI controller can be used for the connection of internal or external tape devices.

The following rules apply for the cabling:
The cables for the connection of the SAS RAID controller to the disks in the system are includes in the base unit.
If an internal tape is configured, an additional SCSI cable is needed. (see section "IV Hard disk drives / Tapes")
For the connection of external Tape devices to the on board SCSI controller, also an additional cable is needed in the system.
(plus cable to connect to the subsystem SX10, see configurator SX10)

Overview SAS / SCSI-cabling of a PRIMERGY RX600 S3 SAS Base Unit



external SCSI Interface

S26361-F3128-E102
external SCSI interface
plug:
1x VHDCI / UHD68(S)
max. 1x per system

E

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Section V USB devices / optical devices

One of the following **USB** devices **must be used** for integrating the drivers during installation process if no automized (e.g. Serverstart / Altiris / RIS / ADS / ...) installation is done:	
1) USB DVD+-RW: Traveller III DVD DL super multi drive	S26391-F3152-L300 (USB cable included)
2) FDD USB (external): external USB FDD	S26391-F264-L226 (USB cable included)
3) USB Keyboard: KBPC PX D, professional keyboard	S26381-K340-V120
4) USB Mouse: Optical Wheel Mouse	S26381-K403-L100
5) USB Memorybird: Memorybird 1GB	S26391-F6046-L24
Additionally a monitor can be connected to the VGA 15-pin interface.	

1x

S26361-F3123-E1
CD-RW / DVD drive 0.5"
24/24/24x / 8x ATAPI
CD-RW only with W2K, W3K, Linux
0.5 x 5.25", anthracite bezel
max. 1x per system

S26361-F3236-E1
DVD-RW 8x super multi drive
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
0.5 x 5.25", anthracite bezel
max. 1x per system

Section VI Hard disk drives

HDD´s for SCSI Base Units

max. 5

S26361-F3121-E173
Hard disk 73GB
10000rpm,<5,5ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/RAID controller necessary
max. 5x per system

S26361-F3121-E114
Hard disk 146GB
10000rpm,<5,5ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/RAID controller necessary
max. 5x per system

S26361-F3121-E130
Hard disk 300GB
10000rpm,<5,5ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/RAID controller necessary
max. 5x per system

S26361-F3121-E536
Hard disk 36GB
15.000rpm,<4ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/ RAID controller necessary
max. 5x per system

S26361-F3121-E573
Hard disk 73GB
15.000rpm,<4ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/ RAID controller necessary
max. 5x per system

S26361-F3121-E514
Hard disk 146GB
15.000rpm,<4ms, 8MB Cache
Ultra 320 SCSI (320MB/s)
Interface: Wide SCA (80-pins)
hot plug/hot replace tray
occupies 1" bay
SCSI/ RAID controller necessary
max. 5x per system

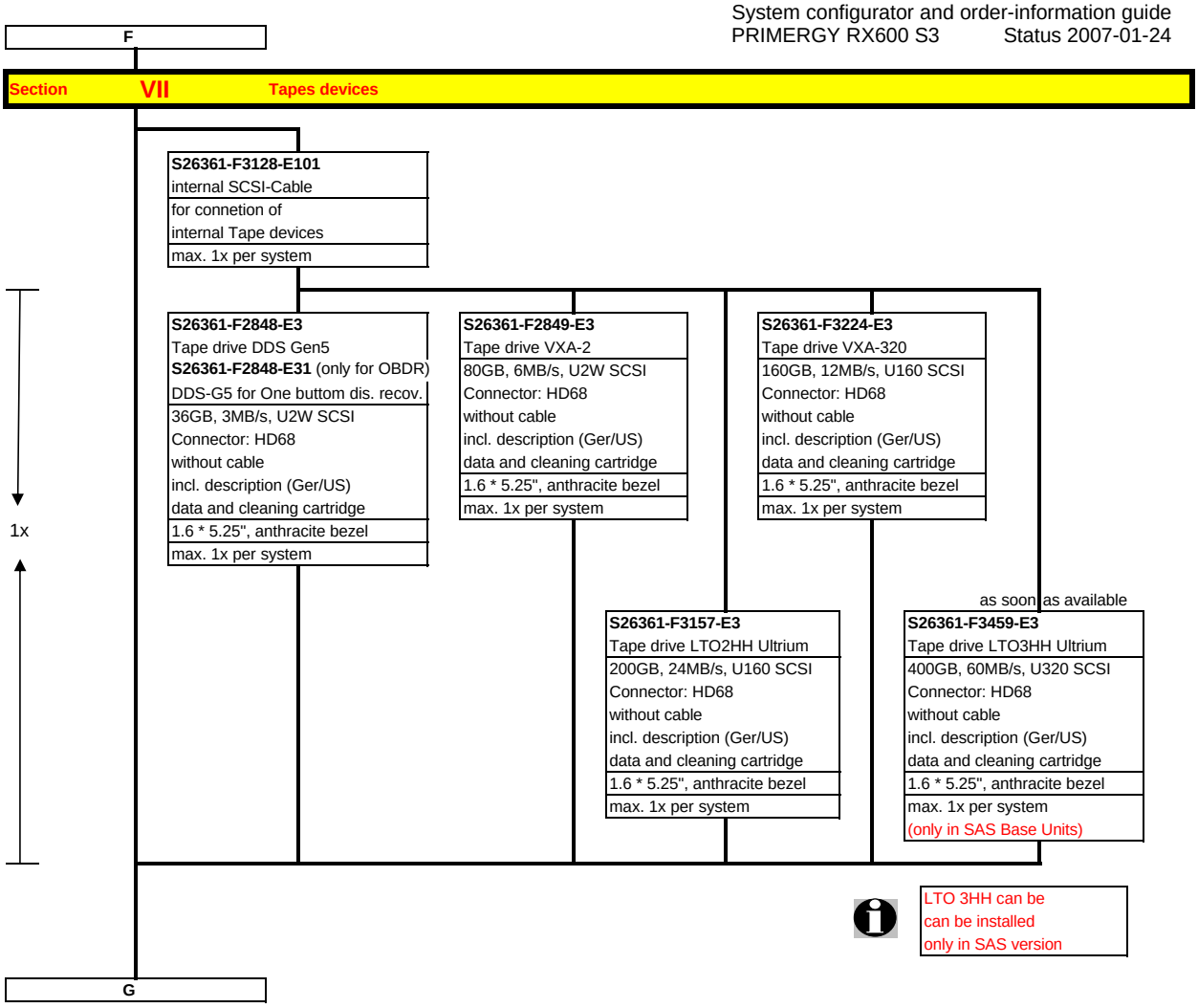
HDD´s for SAS Base Units

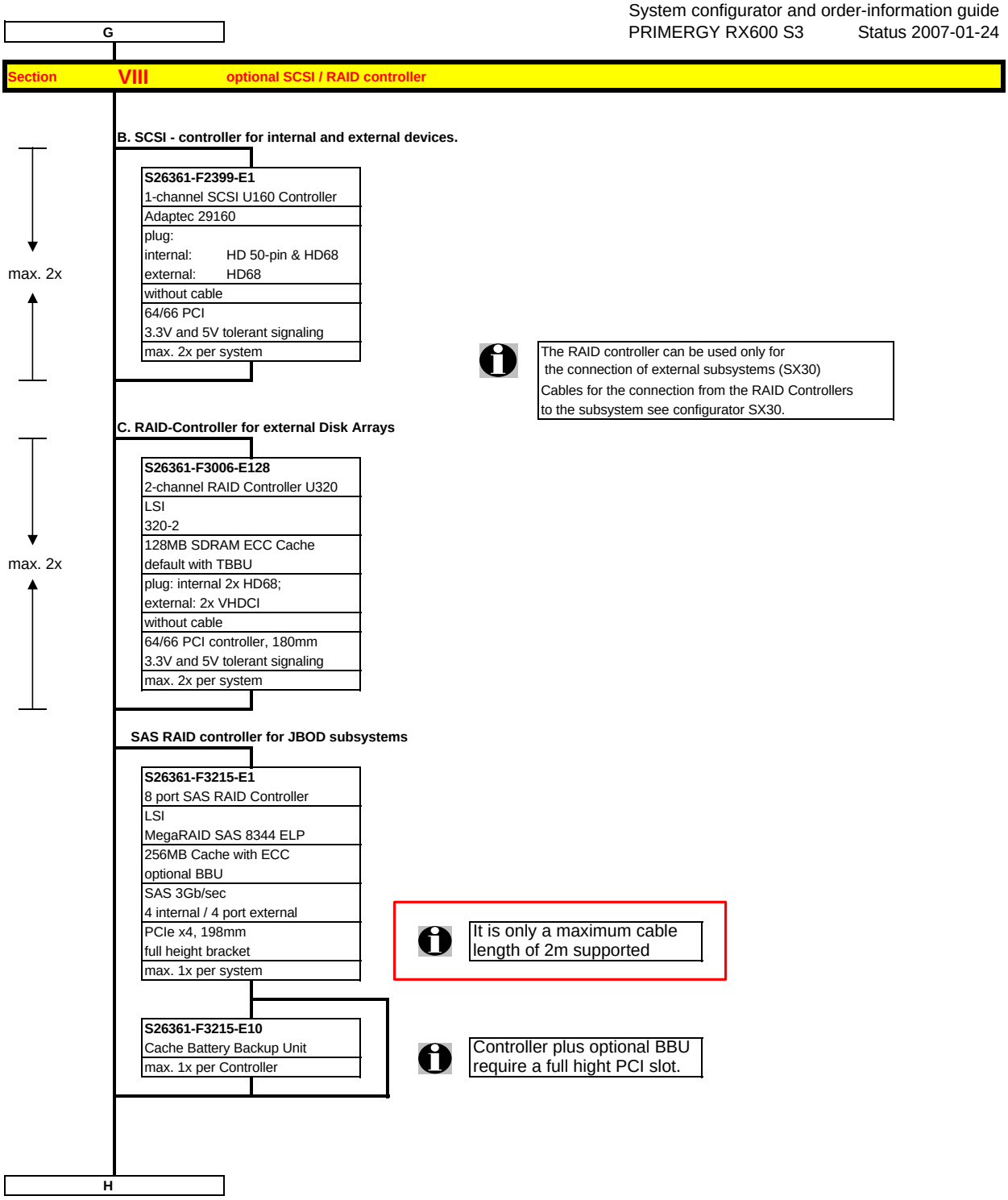
max. 8

S26361-F3208-E136
HD 36GB 10krpm 2.5"
10000rpm,<4,5ms, 8MB Cache
SAS 3Gb/s
hot plug/hot replace tray
max. 8x per base unit

S26361-F3208-E173
HD 73GB 10krpm 2.5"
10000rpm,<4,5ms, 8MB Cache
SAS 3Gb/s
hot plug/hot replace tray
max. 8x per base unit

F


F
Section VII Tapes devices
S26361-F3128-E101
internal SCSI-Cable
for connetion of
internal Tape devices
max. 1x per system
1x
S26361-F2848-E3
Tape drive DDS Gen5
S26361-F2848-E31 (only for OBDR)
DDS-G5 for One buttom dis. recov.
36GB, 3MB/s, U2W SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system
S26361-F2849-E3
Tape drive VXA-2
80GB, 6MB/s, U2W SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system
S26361-F3224-E3
Tape drive VXA-320
160GB, 12MB/s, U160 SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system
as soon as available
S26361-F3157-E3
Tape drive LTO2HH Ultrium
200GB, 24MB/s, U160 SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system
S26361-F3459-E3
Tape drive LTO3HH Ultrium
400GB, 60MB/s, U320 SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system
(only in SAS Base Units)
LTO 3HH can be
can be installed
only in SAS version
G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Section VIII optional SCSI / RAID controller
B. SCSI - controller for internal and external devices.
S26361-F2399-E1
1-channel SCSI U160 Controller
Adaptec 29160
plug:
internal: HD 50-pin & HD68
external: HD68
without cable
64/66 PCI
3.3V and 5V tolerant signaling
max. 2x per system
max. 2x
The RAID controller can be used only for the connection of external subsystems (SX30)
Cables for the connection from the RAID Controllers to the subsystem see configurator SX30.
C. RAID-Controller for external Disk Arrays
S26361-F3006-E128
2-channel RAID Controller U320
LSI
320-2
128MB SDRAM ECC Cache
default with TBBU
plug: internal 2x HD68;
external: 2x VHDCI
without cable
64/66 PCI controller, 180mm
3.3V and 5V tolerant signaling
max. 2x per system
max. 2x
SAS RAID controller for JBOD subsystems
S26361-F3215-E1
8 port SAS RAID Controller
LSI
MegaRAID SAS 8344 ELP
256MB Cache with ECC
optional BBU
SAS 3Gb/sec
4 internal / 4 port external
PCIe x4, 198mm
full height bracket
max. 1x per system
It is only a maximum cable length of 2m supported
S26361-F3215-E10
Cache Battery Backup Unit
max. 1x per Controller
Controller plus optional BBU require a full hight PCI slot.
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Section IX Fibre channel controller

Qlogic controller

Emulex Controller

No mix and match for Qlogic and Emulex Fibre channel controllers possible

S26361-F3097-E1
2GBit/s FC Controller
Qlogic
QLA2340, full height bracket
1 channel 2GBit/sec FC Controller
LC Interface for 50µm Fiber
PCI-X 64Bit / 133MHz, 170mm
3.3V / 5V tolerant signaling
max. 3x per system

Qlogic controller
max. 3x or

Emulex controller
max. 3x / 4x

S26361-F3306-E1
4GBit/s FC Controller
Emulex
LPe1150, full height bracket
1 channel 4GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 3x / 4x per system

S26361-F3306-E2
4GBit/s FC Controller
Emulex
LPe11002, full height bracket
2 channel 4GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 3x / 4x per system

In SAS version
max. 3x PCIe controller
can be installed

All controllers for the connection of external storage systems are delivered without cables.
For the configuration of external cabling see the configurator for external storage systems.

For Fibre Channel SAN also other componets like switches, SFPs and optical wires are orderable (for details see price liste)

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Section X Communication / Network

on-board LAN Controller

Dual Gbit Ethernet Contr. on-board
BroadCom BCM5704
ext: 2 x RJ 45 connector

Teaming: Failover, Load Balancing
The Intel LAN Controllers Pro 1000MT, 1000MF, 1000PT, 1000PF can be used with the on-board controller in Teaming Mode
With Broadcom on-board adapters for Gigabit Ethernet must be used for the teaming the Broadcom driver.
Two onboard LAN ports can likewise educate a team.

A) Single Port LAN Adapter PCI-X

3x

S26361-F3054-E1
Gigabit Ethernet Contr. 1000SX
Eth. Ctrl 1x1Gbit PCI-X Pro/1000MF LC
Intel PRO/1000 MF Server Adapter
PCI-X (PCI64/133), min 165 mm
ext:LC-connector
max. 3x per system

S26361-F3053-E1
Gigabit Ethernet Controller 1000TX
Eth Ctrl 1x1Gbit PCI-X Pro/1000MT Cu
Intel PRO/1000 MT Server Adapter
PCI-X (PCI64/133)
ext: for RJ45-connector, Cat 5
max. 3x per system

B) Dual Port LAN Adapter PCI-X

S26361-F3011-E1
Gigabit Ethernet Controller Dual 1000TX
Eth Ctrl 2x1Gbit PCI-X PRO/1000MT Cu
Intel Pro/1000MT Dual Port Server Ad.
PCI-X (PCI64/133)
ext: for RJ45-plug, Cat 5
max. 1x per system

C) Single Port LAN Adapter PCIe

3x / 4x

S26361-F3241-E1
Gigabit Ethernet Contr. 1000SX
Eth. Ctrl 1x1Gbit PCIe Pro/1000PT
Intel PRO/1000 MPT Server Adapter
PCIe x1
ext:LC-connector
max. 3x / 4x per system

S26361-F3242-E1
Gigabit Ethernet Controller 1000TX
Eth. Ctrl 1x1Gbit PCIe Pro/1000PF
Intel PRO/1000 PF Server Adapter
PCIe x4
ext: for RJ45-connector, Cat 5
max. 3x / 4x per system

In SAS version
max. 3x PCIe controller
can be installed

D) Dual Port LAN Adapter PCIe x4

while stocks last

S26361-F3143-E1
Gigabit Ethernet Contr. dual 1000TX
Eth. Ctrl 2x1Gbit PCIe PRO/1000P Cu
Intel Pro/1000P dual Server Adapter
PCIe x4, 170mm
ext: for RJ45-plug, Cat 5
connection with Cat 5 cabling
SW: VLAN, Fast & Gbit Etherchannel
max. 3x / 4x per system

S26361-F3228-E1
Gigabit Ethernet Controller Dual 1000TX
Eth Ctrl 2x1Gbit PCIe PRO/1000PT Cu
Intel Pro/1000PT dual Server Adapter
PCIe x4
ext: for RJ45-plug, Cat 5
max. 3x / 4x per system

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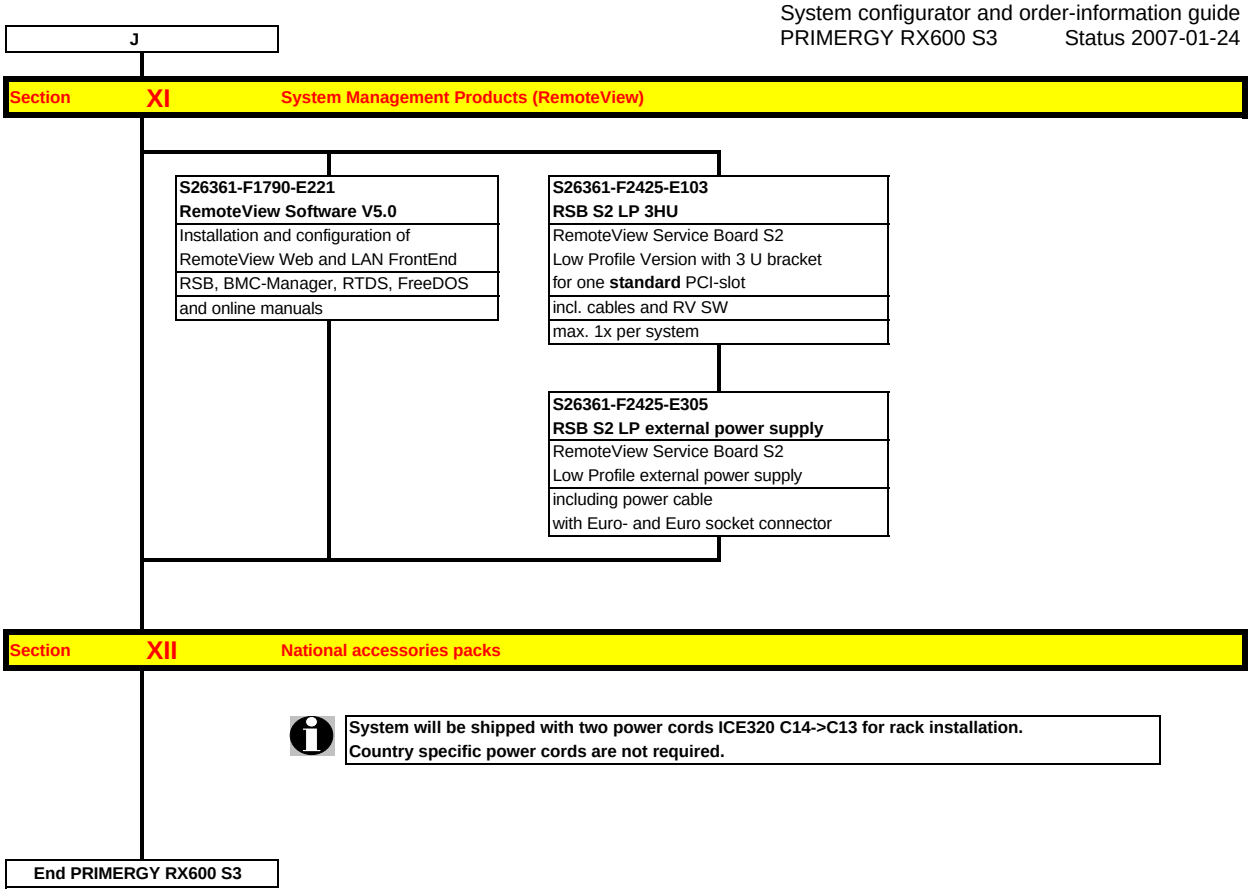
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Section XI System Management Products (RemoteView)
S26361-F1790-E221
RemoteView Software V5.0
Installation and configuration of
RemoteView Web and LAN FrontEnd
RSB, BMC-Manager, RTDS, FreeDOS
and online manuals
S26361-F2425-E103
RSB S2 LP 3HU
RemoteView Service Board S2
Low Profile Version with 3 U bracket
for one standard PCI-slot
incl. cables and RV SW
max. 1x per system
S26361-F2425-E305
RSB S2 LP external power supply
RemoteView Service Board S2
Low Profile external power supply
including power cable
with Euro- and Euro socket connector
Section XII National accessories packs
System will be shipped with two power cords ICE320 C14->C13 for rack installation.
Country specific power cords are not required.
End PRIMERGY RX600 S3

Change Report

Date	Order number	Changes
2007-01-24	S26361-F3124-E200	VRM module for 3rd/4th CPU - no longer available
2007-01-24	S26361-F3124-E361	Processor Xeon MP 3.66GHz 1MB - no longer available
2007-01-24	S26361-K988-V122	Rack mountable server 19" (4U) with processor Xeon 3.66GHz / 1MB SLC - no longer available
2007-01-16	S26361-F3215-E10	Cache Battery Backup Unit for 8 port SAS RAID Controller - now available
2007-01-16	S26361-F3215-E1	8 port SAS RAID Controller - now available
2006-12-19	S26361-K988-V510-540	Rack mountable server 19" (4U) SAS basic unit - now available
2006-12-14	S26361-K988-V5xx	SAS Base Units added
2006-11-28	S26361-F3241x-E1	Singel Port PCIe LAN controller - now available
2006-11-15	S26361-F3124-E311	Processor Xeon MP 3.16GHz 1MB - no longer available
2006-11-15	S26361-F3124-E262	Processor Xeon MP 7020 3.16GHz 2x1MB - no longer available
2006-11-15	S26361-F3124-E282	Processor Xeon MP 7030 2.80GHz 2x1MB - no longer available
2006-11-15	S26361-F3124-E304	Processor Xeon MP 7041 3.00GHz 2x1MB - no longer available
2006-11-15	S26361-K988-V112	Rack mountable server 19" (4U) with processor Xeon MP 3.16GHz 1MB - no longer available
2006-11-15	S26361-K988-V312	Rack mountable server 19" (4U) with processor Xeon MP 7020 3.16GHz 2x1MB - no longer available
2006-11-15	S26361-K988-V322	Rack mountable server 19" (4U) with processor Xeon MP 7030 2.80GHz 2x1MB - no longer available
2006-11-15	S26361-K988-V332	Rack mountable server 19" (4U) with processor Xeon MP 7041 3.00GHz 2x1MB - no longer available
2006-08-25	S26361-F3124-E440	Processor Xeon MP 7140M 3.40GHz 16MB 800MHz - now available
2006-08-25	S26361-F3124-E430	Processor Xeon MP 7130M 3.40GHz 8MB 800MHz - now available
2006-08-25	S26361-F3124-E420	Processor Xeon MP 7120M 3.00GHz 4MB 800MHz - now available
2006-08-25	S26361-F3124-E410	Processor Xeon MP 7110M 2.60GHz 4MB 800MHz - now available
2006-08-25	S26361-F3128-E800	VRM module for 3rd/4th CPU - now available
2006-08-25	S26361-K988-V440	Rack mountable server 19" (4U) with 64-bit Xeon MP Dual Core processor 7140; 16MB TLC - now available
2006-08-25	S26361-K988-V430	Rack mountable server 19" (4U) with 64-bit Xeon MP Dual Core processor 7130; 8MB TLC - now available
2006-08-25	S26361-K988-V420	Rack mountable server 19" (4U) with 64-bit Xeon MP Dual Core processor 7120; 4MB TLC - now available
2006-08-25	S26361-K988-V410	Rack mountable server 19" (4U) with 64-bit Xeon MP Dual Core processor 7110; 4MB TLC - now available
2006-02-13		first draft